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November 10, 2005

State Budget and Control Board South Carolina Retirement Systems Columbia, South Carolina 29211

Re: Certification and Statement Regarding Actuarial Valuations as of July 1, 2004

Dear Members of the Board:

### **Applicable Laws**

The laws governing the operation of the various Retirement Systems provide that actuarial valuations of the assets and liabilities of the Systems shall be made annually for the South Carolina Retirement System and the Police Officers Retirement System and no less frequently than biennially for the General Assembly Retirement System and the Judges and Solicitors Retirement System. At your request, we have conducted an annual actuarial valuation of each of the four separate South Carolina Retirement Systems as of July 1, 2004.

#### **Funding Objective**

A funding objective of the Systems is that contribution rates will remain relatively level over time as a percentage of payroll. As these contribution rates are set by the Board, the valuation is used to determine the sufficiency of the contributions to maintain or improve the measures of the Systems' funding progress (i.e. *funded ratio, funding period*) and provide for the complete funding of all actuarial liabilities within 30 years.

#### **Funding Methodology**

The entry age normal actuarial cost method determines each system's normal cost, the cost of the current year's benefit accrual, as a level percentage of the active member's payroll. Additionally, the method determines the actuarial liability, the value of benefits already earned by active and retired members due to past service. A smoothing technique is utilized to produce a market-related actuarial value of assets with the goal of dampening the impact of investment return volatility. The *funded ratio* is the actuarial value of assets as a percentage of the actuarial liability.

An unfunded actuarial liability exists to the extent a System's actuarial liability exceeds its actuarial value of assets. The contribution amount in excess of a system's normal cost is the level percentage of payroll available to amortize an unfunded actuarial liability. The System's funding period is the resulting number of years necessary to fully amortize an unfunded actuarial liability with the available contributions.

### **Assumptions**

Actuarial assumptions are necessary to estimate the future economic and demographic experience of the Systems. The actuarial assumptions were recommended by the prior actuary and adopted by the State Budget and Control Board based on a review of the System's experience completed during Fiscal Year 2004. We have reviewed these assumptions and believe they are reasonable.

The current actuarial assumptions for each System are in accordance with the applicable Actuarial Standards of Practice, as well as the parameters set forth in the Governmental

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Accounting Standards Board (GASB) Statement No. 25, Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans.

The results and conclusions of this report are only valid for the July 1, 2004 plan year and should not be interpreted as applying in future years. Differences between our projections and actual amounts depend on the extent to which future experience conforms exactly to the assumptions used in this analysis. Actual amounts will differ from projected amounts to the extent that actual experience deviates from expected experience.

#### **Data Reliance**

In preparing the valuations, we, as the actuary, relied on data provided by the Systems. In fulfillment of the scope of our assignment, we performed a limited review of the data for consistency and reasonableness and did not find material defects in the census data. If there are material defects in the data, it is possible that they would be uncovered by a detailed, systematic review and comparison of the data to search for data values that are questionable or for relationships that are materially inconsistent. Such a review was beyond the scope of our assignment. If the underlying data or information is inaccurate or incomplete, the results of our analysis may likewise be inaccurate or incomplete.

### Supporting Schedules

Our firm, as actuary, is responsible for the actuarial trend data in the financial section of the report and the supporting schedules in the actuarial section, beginning with the information for the July 1, 2003 to June 30, 2004 period. Information for previous years was supplied by other actuarial firms employed by the Systems at that time.

#### Certification

Based on the results of the four July 1, 2004 valuations, we believe that the valuations are appropriately reflecting the plan's long term obligations and the current contribution levels are sufficient to fund the liabilities of each plan over a reasonable time frame, and based on these criteria may be deemed actuarially sound.

I, Robert Dezube, am a consulting actuary for Milliman. I am also a member of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein. On the basis of the foregoing, I certify that, to the best of my knowledge this report is complete and accurate and has been prepared in accordance with South Carolina's statutes and generally recognized and accepted actuarial principles and practices which are consistent with the principles prescribed by the Actuarial Standards Board (ASB) and the Code of Professional Conduct and Qualification Standards for Public Statements of Actuarial Opinion of the American Academy of Actuaries.

Respectfully submitted,

Milliman, Inc.

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Robert S. Dezube, FSA, MAAA Principal and Consulting Actuary

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### **South Carolina Retirement System Valuation Balance Sheet**

As of Actuarial Valuation at July 1, 2004 (Amounts expressed in thousands)

			July 1, 2004		
1.	A	ssets			
	a.	Current Assets (Actuarial Value)			
		i) Employee Annuity Savings Fund	\$	4,750,077	
		ii) Employer Annuity Accumulation Fund		16,112,582	
		iii) Total Current Assets	\$	20,862,659	
	b.	Present Value of Future Member Contributions	\$	2,743,400	
	С.	Present Value of Future Employer Contributions			
		i) Normal Contributions	\$	2,142,726	
		ii) Accrued Liability Contributions		5,115,193	
		iii) Total Future Employer Contributions	\$	7,257,919	
	d.	<u>Total Assets</u>	\$	30,863,978	
2.	<u>Lia</u>	bilities			
	a.	Employee Annuity Savings Fund			
		i) Past Member Contributions	\$	4,750,077	
		ii) Present Value of Future Member Contributions		2,743,400	
		iii) Total Contributions to Employee Annuity			
		Savings Fund	\$	7,493,477	
	b.	Employer Annuity Accumulation Fund			
		i) Benefits Currently in Payment	\$	14,184,765	
		ii) Benefits to be Paid to Current Active Members		9,185,736	
		iii) Total Benefits Payable from Employer Annuity			
		Accumulation Fund	\$	23,370,501	
	c.	Total Liabilities	\$	30,863,978	

### **Police Officers Retirement System Valuation Balance Sheet**

As of Actuarial Valuation at July 1, 2004 (Amounts expressed in thousands)

			Ju	ıly 1, 2004
1.	A	<u>assets</u>		
	a.	Current Assets (Actuarial Value)		
		i) Employee Annuity Savings Fund	\$	548,699
		ii) Employer Annuity Accumulation Fund		2,068,136
		iii) Total Current Assets	\$	2,616,835
	b.	Present Value of Future Member Contributions	\$	425,174
	C.	Present Value of Future Employer Contributions		
		i) Normal Contributions	\$	453,461
		ii) Accrued Liability Contributions		367,749
		iii) Total Future Employer Contributions	\$	821,210
	d.	<u>Total Assets</u>	\$	3,863,219
2.	<u>Lia</u>	bilities		
	a.	Employee Annuity Savings Fund		
		i) Past Member Contributions	\$	548,699
		ii) Present Value of Future Member Contributions		425,174
		iii) Total Contributions to Employee Annuity		
		Savings Fund	\$	973,873
	b.	Employer Annuity Accumulation Fund		
		i) Benefits Currently in Payment	\$	1,415,627
		ii) Benefits to be Paid to Current Active Members		1,473,719
		iii) Total Benefits Payable from Employer Annuity		
		Accumulation Fund	\$	2,889,346
	c.	<u>Total Liabilities</u>	\$	3,863,219

### General Assembly Retirement System Valuation Balance Sheet As of Actuarial Valuation at July 1, 2004

1.	٨	ssets	 July 1, 2004	
1.	_			
	a.	<u>Current Assets (Actuarial Value)</u>		
		i) Employee Annuity Savings Fund	\$ 8,485,000	
		ii) Employer Annuity Accumulation Fund	 36,602,000	
		iii) Total Current Assets	\$ 45,087,000	
	b.	Present Value of Future Member Contributions	\$ 2,469,007	
	с.	Present Value of Future Employer Contributions		
		i) Normal Contributions	\$ 1,962,830	
		ii) Accrued Liability Contributions	23,245,001	
		iii) Total Future Employer Contributions	\$ 25,207,831	
	d.	<u>Total Assets</u>	\$ 72,763,838	
2.	<u>Lia</u>	<u>bilities</u>		
	a.	Employee Annuity Savings Fund		
		i) Past Member Contributions	\$ 8,485,000	
		ii) Present Value of Future Member Contributions*	2,469,007	
		iii) Total Contributions to Employee Annuity		
		Savings Fund	\$ 10,954,007	
	b.	Employer Annuity Accumulation Fund		
		i) Benefits Currently in Payment	\$ 48,125,747	
		ii) Benefits to be Paid to Current Active Members	13,684,084	
		iii) Total Benefits Payable from Employer Annuity		
		Accumulation Fund	\$ 61,809,831	
	c.	<u>Total Liabilities</u>	\$ 72,763,838	

 $<sup>{}^{*}</sup>$ Includes future special contributors

### Judges and Solicitors Retirement System Valuation Balance Sheet As of Actuarial Valuation at July 1, 2004

			July 1, 2004		
1.	A	<u>assets</u>			
	a.	Current Assets (Actuarial Value)			
		i) Employee Annuity Savings Fund	\$	17,640,000	
		ii) Employer Annuity Accumulation Fund		94,376,000	
		iii) Total Current Assets	\$	112,016,000	
	b.	Present Value of Future Member Contributions	\$	10,997,679	
	c.	Present Value of Future Employer Contributions			
		i) Normal Contributions	\$	15,757,738	
		ii) Accrued Liability Contributions		73,035,872	
		iii) Total Prospective Employer Contributions	\$	88,793,610	
	d.	<u>Total Assets</u>	\$	211,807,289	
2.	<u>Lia</u>	bilities			
	a.	Employee Annuity Savings Fund			
		i) Past Member Contributions	\$	17,640,000	
		ii) Present Value of Future Member Contributions		10,997,679	
		iii) Total Contributions to Employee Annuity			
		Savings Fund	\$	28,637,679	
	b.	Employer Annuity Accumulation Fund			
		i) Benefits Currently in Payment	\$	106,158,806	
		ii) Benefits to be Paid to Current Active Members		77,010,804	
		iii) Total Benefits Payable from Employer Annuity			
		Accumulation Fund	\$	183,169,610	
	c.	Total Liabilities	\$	211,807,289	

### South Carolina Retirement System Results of the Valuation as of July 1, 2004 (Dollar amounts expressed in thousands)

		July 1, 2004		
1.	Actuarial Present Value of Future Benefits			
	a. Present Retired Members and Beneficiaries	\$	14,184,765	
	b. Present Active and Inactive Members		16,679,213	
	c. Total Actuarial Present Value	\$	30,863,978	
2.	Present Value of Future Normal Contributions			
	a. Employee at 6.00%	\$	2,743,400	
	b. Employer at 3.80%		2,142,726	
	c. Total Future Normal Contributions	\$	4,886,126	
3.	Actuarial Liability	\$	25,977,852	
4.	<b>Current Actuarial Value of Assets</b>	\$	20,862,659	
5.	<u>Unfunded Actuarial Liability</u>	\$	5,115,193	
6.	<u>Unfunded Actuarial Liability Rates</u>			
	a. Active Members		3.75%	
	b. TERI Members		3.75%	
	c. ORP Members		2.55%	
	d. Reemployed Members		7.55%	
7.	Unfunded Actuarial Liability Liquidation Period		27 years	

# Police Officers Retirement System Results of the Valuation as of July 1, 2004 (Dollar amounts expressed in thousands)

		Ju	ıly 1, 2004
1.	Actuarial Present Value of Future Benefits		
	<ul><li>a. Present Retired Members and Beneficiaries</li><li>b. Present Active and Inactive Members</li></ul>	\$	1,415,627 2,447,592
	c. Total Actuarial Present Value	\$	3,863,219
2.	Present Value of Future Normal Contributions		
	<ul><li>a. Employees</li><li>b. Employer</li></ul>	\$	425,174 453,461
	c. Total Future Normal Contributions	\$	878,635
3.	Actuarial Liability	\$	2,984,584
4.	Current Actuarial Value of Assets	\$	2,616,835
5.	<u>Unfunded Actuarial Liability</u>	\$	367,749
6.	<u>Unfunded Actuarial Liability Rates</u>		3.11%
7.	Unfunded Actuarial Liability Liquidation Period		16 years

### General Assembly Retirement System Results of the Valuation as of July 1, 2004

		Ju	uly 1, 2004
1.	Actuarial Present Value of Future Benefits		
	<ul><li>a. Present Retired Members and Beneficiaries</li><li>b. Present Active and Inactive Members</li><li>c. Total Actuarial Present Value</li></ul>	\$ \$	48,125,747 24,638,091 72,763,838
2.	Present Value of Future Normal Contributions		
	<ul><li>a. Employees</li><li>b. Special Contributors</li><li>c. Employer</li><li>d. Total Future Normal Contributions</li></ul>	\$ 	2,108,649 360,358 1,962,830 4,431,837
3.	Actuarial Liability	\$	68,332,001
4.	Current Actuarial Value of Assets	\$	45,087,000
5.	<u>Unfunded Actuarial Liability</u>	\$	23,245,001
6.	Unfunded Actuarial Liability Liquidation Period		23 years

### Judges and Solicitors Retirement System Results of the Valuation as of July 1, 2004

		 uly 1, 2004
1.	Actuarial Present Value of Future Benefits	
	<ul><li>a. Present Retired Members and Beneficiaries</li><li>b. Present Active and Inactive Members</li></ul>	\$ 106,158,806 105,648,483
	c. Total Actuarial Present Value	\$ 211,807,289
2.	Present Value of Future Normal Contributions	
	<ul><li>a. Employees</li><li>b. Employer</li></ul>	\$ 10,997,679 15,757,738
	c. Total Future Normal Contributions	\$ 26,755,417
3.	Actuarial Liability	\$ 185,051,872
4.	<u>Current Actuarial Value of Assets</u>	\$ 112,016,000
5.	<u>Unfunded Actuarial Liability</u>	\$ 73,035,872
6.	<b>Unfunded Actuarial Liability Rates</b>	27.40%
7.	Unfunded Actuarial Liability Liquidation Period	28 years

### South Carolina Retirement System Summary of Actuarial Assumptions and Methods

### 1. <u>Investment Return to be Earned by Fund</u>

7.25% per annum, compounded annually, composed of an assumed 3.00% inflation rate and a 4.25% real rate of return, net of investment and administrative expenses.

### 2. <u>Salary Increases</u>

Salary increases are assumed in accordance with the following representative rates:

Annual Increase			Annual Increase			
Years of	General		Years of	General	al	
<b>Service</b>	<b>Employees</b>	<b>Teachers</b>	<u>Service</u>	<b>Employees</b>	<b>Teachers</b>	
0	8.00%	8.00%	8	4.50%	4.75%	
1	5.75%	8.00%	9	4.50%	4.75%	
2	5.00%	5.50%	10	4.25%	4.75%	
3	4.75%	5.25%	11	4.25%	4.50%	
4	4.50%	5.00%	12	4.25%	4.40%	
5	4.50%	5.00%	13	4.25%	4.40%	
6	4.50%	5.00%	14	4.25%	4.40%	
7	4.50%	4.75%	15+	4.00%	4.00%	

### 3. <u>Decrement Rates</u>

### a. Service Retirement

		Annual Rates of			
			ed Service ement*		d Service ement
	<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
<b>Employees</b>	50	12%	14%		
	55	15%	18%	5%	10%
	60	20%	20%	5%	11%
	61	20%	20%	15%	15%
	62	30%	35%	27%	28%
	63	30%	30%	16%	20%
	64	30%	35%	22%	20%
	65	40%	40%		
	66	20%	25%		
	67	20%	25%		
	68	20%	25%		
	69	20%	25%		
	70	100%	100%		
Teachers	50	14%	15%		
	55	18%	25%	6%	9%
	60	25%	25%	14%	15%
	61	30%	40%	18%	20%
	62	20%	35%	25%	25%
	63	20%	25%	28%	20%
	64	35%	30%	28%	30%
	65	45%	40%		
	66	23%	23%		
	67	23%	23%		
	68	23%	23%		
	69	23%	23%		
	70	100%	100%		

\*Plus the following percentage in the year when first become eligible for unreduced service retirement before age 65.

	General	
	<b>Employees</b>	<b>Teachers</b>
Male	30%	40%
Female	45%	40%

### b. <u>In-Service Mortality and Disability</u>

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		Mortaility				Disability					
	<u>Employees</u>		<u>Teachers</u>		<u>Empl</u>	<u>oyees</u>	<u>Teachers</u>				
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>			
25	0.04%	0.01%	0.03%	0.01%	0.06%	0.05%	0.04%	0.05%			
30	0.04%	0.02%	0.03%	0.01%	0.12%	0.07%	0.06%	0.07%			
35	0.08%	0.03%	0.06%	0.03%	0.17%	0.15%	0.08%	0.07%			
40	0.11%	0.05%	0.08%	0.04%	0.29%	0.19%	0.16%	0.13%			
45	0.15%	0.07%	0.11%	0.06%	0.40%	0.27%	0.26%	0.26%			
50	0.21%	0.11%	0.16%	0.09%	0.58%	0.46%	0.42%	0.42%			
55	0.30%	0.16%	0.23%	0.14%	0.92%	0.74%	0.68%	0.68%			
60	0.49%	0.26%	0.37%	0.22%	1.15%	1.12%	1.05%	1.05%			
64	0.70%	0.35%	0.53%	0.30%	1.44%	1.56%	1.31%	1.31%			

### c. <u>Withdrawal rates</u>

### **Probability of Decrement Due to Withdrawal**

	Years of Service - Male Teachers										
Age	0	1	2	3	4	5	6	7	8	9	10+
25	0.2964	0.2029	0.1384	0.0973	0.0721	0.0578	0.0513	0.0508	0.0518	0.0538	0.0560
30	0.2721	0.1922	0.1356	0.0990	0.0776	0.0662	0.0607	0.0577	0.0538	0.0477	0.0387
35	0.2531	0.1823	0.1316	0.0990	0.0805	0.0708	0.0657	0.0611	0.0540	0.0429	0.0273
40	0.2371	0.1730	0.1271	0.0979	0.0817	0.0730	0.0679	0.0619	0.0529	0.0390	0.0199
45	0.2239	0.1649	0.1228	0.0960	0.0811	0.0726	0.0669	0.0600	0.0503	0.0359	0.0167
50	0.2135	0.1587	0.1192	0.0936	0.0787	0.0698	0.0628	0.0553	0.0460	0.0335	0.0174
55	0.2063	0.1549	0.1168	0.0908	0.0742	0.0645	0.0557	0.0479	0.0401	0.0317	0.0222
60	0.1996	0.1518	0.1143	0.0865	0.0669	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

### **Probability of Decrement Due to Withdrawal**

Years of Service - Female Teachers											
Age	0	1	2	3	4	5	6	7	8	9	10+
25	0.2299	0.1608	0.1209	0.1006	0.0892	0.0841	0.0827	0.0802	0.0731	0.0660	0.0601
30	0.2269	0.1664	0.1260	0.1015	0.0878	0.0802	0.0751	0.0696	0.0618	0.0527	0.0426
35	0.2171	0.1597	0.1208	0.0966	0.0830	0.0748	0.0682	0.0615	0.0536	0.0434	0.0303
40	0.2045	0.1477	0.1106	0.0885	0.0759	0.0683	0.0616	0.0551	0.0475	0.0368	0.0215
45	0.1930	0.1361	0.1001	0.0798	0.0685	0.0619	0.0561	0.0504	0.0435	0.0329	0.0163
50	0.1866	0.1296	0.0937	0.0738	0.0633	0.0570	0.0523	0.0478	0.0417	0.0317	0.0154
55	0.1879	0.1308	0.0935	0.0727	0.0626	0.0543	0.0509	0.0474	0.0420	0.0331	0.0190
60	0.1948	0.1379	0.0986	0.0758	0.0660	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**Probability of Decrement Due to Withdrawal** 

	Years of Service - Male Employees										
Age	0	1	2	3	4	5	6	7	8	9	10+
25	0.3288	0.2466	0.1902	0.1554	0.1345	0.1166	0.0963	0.0783	0.0650	0.0595	0.0662
30	0.2939	0.2211	0.1726	0.1425	0.1236	0.1089	0.0951	0.0821	0.0704	0.0603	0.0530
35	0.2678	0.1997	0.1553	0.1285	0.1122	0.1010	0.0916	0.0822	0.0716	0.0586	0.0424
40	0.2456	0.1804	0.1384	0.1140	0.1002	0.0922	0.0861	0.0791	0.0695	0.0549	0.0335
45	0.2257	0.1636	0.1233	0.1003	0.0882	0.0825	0.0781	0.0727	0.0639	0.0493	0.0266
50	0.2082	0.1501	0.1115	0.0891	0.0774	0.0717	0.0675	0.0626	0.0547	0.0419	0.0224
55	0.1942	0.1410	0.1041	0.0814	0.0691	0.0600	0.0543	0.0488	0.0419	0.0328	0.0212
60	0.1827	0.1351	0.1002	0.0770	0.0632	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

### **Probability of Decrement Due to Withdrawal**

	Years of Service - Female Employees										
Age	0	1	2	3	4	5	6	7	8	9	10+
25	0.2981	0.2459	0.2060	0.1772	0.1560	0.1385	0.1248	0.1159	0.1094	0.1030	0.0940
30	0.2710	0.2236	0.1864	0.1591	0.1395	0.1253	0.1145	0.1059	0.0970	0.0853	0.0688
35	0.2506	0.2015	0.1657	0.1410	0.1244	0.1130	0.1042	0.0958	0.0857	0.0712	0.0505
40	0.2329	0.1803	0.1451	0.1233	0.1101	0.1010	0.0935	0.0854	0.0748	0.0592	0.0367
45	0.2172	0.1622	0.1275	0.1080	0.0972	0.0894	0.0825	0.0746	0.0644	0.0493	0.0276
50	0.2041	0.1493	0.1151	0.0966	0.0864	0.0787	0.0715	0.0637	0.0543	0.0414	0.0234
55	0.1946	0.1429	0.1091	0.0895	0.0778	0.0688	0.0605	0.0526	0.0445	0.0353	0.0240
60	0.1873	0.1412	0.1079	0.0855	0.0701	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Note: No probability of withdrawal is applied to members eligible to retire.

### 4. Mortality After Retirement

For healthy retirees and beneficiaries, the UP-94 Mortality Table rates is used, with the female rates set back one year. A separate table of mortality rates is used for disabled retirees. The following are sample rates:

	Hea	lthy	Disabled			
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>		
50	0.28%	0.14%	3.06%	2.31%		
55	0.48%	0.22%	3.86%	2.66%		
60	0.86%	0.42%	4.82%	2.98%		
65	1.56%	0.82%	5.42%	3.33%		
70	2.55%	1.37%	5.91%	3.70%		
75	4.00%	2.19%	6.74%	4.43%		
80	6.67%	3.80%	9.02%	6.71%		
85	10.46%	6.56%	13.45%	10.15%		

### 5. Marriage Assumption

100% of all active members are assumed to be married, with female spouses being 3 years younger.

### 6. Asset Valuation Method

The actuarial value of assets is equal to the market value of assets less a five-year phase in of the excess (shortfall) between expected investment return and actual net income (both based on market value) with the resulting value not being less than 80% or more than 120% of the market value of assets.

### 7. Cost Methods

### a. Normal Retirement, Termination, Death and Disability Benefits

The contribution rate is set by statute for employees and by the South Carolina Budget and Control Board for the employers. The funding period is determined, as described below, using the Entry Age Normal actuarial cost method.

The Entry Age Normal actuarial cost method assigns the plan's total unfunded liabilities (the actuarial present value of future benefits less the actuarial value of assets) to various periods. The unfunded actuarial liability is assigned to years prior to the valuation, and the normal cost is assigned to the year following the valuation. The remaining costs are the normal costs for future years. Then each year's contribution is composed of (i) that year's normal cost, plus (ii) a payment used to reduce the unfunded actuarial liability.

The normal cost is the level (as a percentage of pay) contribution required to fund the benefits for all current members. Part of the normal cost is paid from the employees' own contributions. The employers pay the balance from their contributions. The method used for this valuation sets the present value of future normal costs that are to be paid by the employees as 6% of their present value of future earnings.

The actuarial liability is the difference between the total present value of future benefits and the actuarial present value of future normal costs. The unfunded actuarial liability is the excess of the actuarial liability over the actuarial value of assets.

The balance of the employers' contributions – the remainder after paying their share of the normal cost – is used to reduce the unfunded actuarial liability. The funding period is the length of time required for the unfunded actuarial liability to be completely amortized, assuming that the portion used to reduce the unfunded liability remains level as a percentage of total payroll, which is assumed to grow 4.00% per year.

The calculation of the funding period reflects additional contributions the System receives with respect to both ORP participants and return to work retirees. These contributions are assumed to grow at the same payroll growth rate as for active SCRS employees.

It is assumed that amortization payments are made monthly at the end of the month.

### b. Group Life Insurance Benefit

One-year term cost method.

### 8. Unused Annual Leave

To account for the effect of unused annual leave on Average Final Compensation, liabilities for active members are increased 2.50%.

#### 9. Unused Sick Leave

To account for the effect of unused sick leave on members' final credited service, the service of active members who retire is increased 3 months.

### 10. <u>Future Cost-of-Living Increases</u>

None assumed.

### 11. Administrative and Investment Expenses

The investment return assumption represents the expected return net of all administrative and investment expenses.

### 12. Payroll Growth Rate

4.00% per annum.

### 13. <u>Valuation of Teachers and Employees Retention Incentive (TERI)</u>

We have assumed 80% of all members elect TERI coverage when they are first eligible for an unreduced retirement benefit before age 65. We assume members in the TERI are exposed to adjusted retirement rates during TERI coverage and we assume 100% terminate employment at the end of the TERI period (5 years). The retirement rate is adjusted by the following schedule based on number of years since entering TERI:

Years Since Entering TERI Program	Multiple of Unreduced Retirement Table					
0.00 - 0.99	50%					
1.00 - 1.99	65%					
2.00 - 2.99	80%					
3.00 - 3.99	90%					
4.00 - 4.99	100%					
5.00	All members assumed to retire immediately					

### 14. Changes from Prior Valuation

In the prior valuation, the normal cost was determined as the level (as a percentage of pay) contribution required to fund the benefits for a **new member**. This was determined based upon a hypothetical group of new entrants. This group was based on the age-pay-sex distribution of new members joining SCRS during the six-year period ending July 1, 2003.

### 15. Adoption Date

The current actuarial assumptions and methods were adopted by the State Budget and Control Board on April 20, 2004.

### South Carolina Retirement System Development of Actuarial Value of Assets (Amounts expressed in thousands)

		Item		luation as of uly 1, 2004
1.	Excess (Shortfall) of Investmand Previous Three Years: a. Current Year b. Current Year - 1 c. Current Year - 2 d. Current Year - 3	ent Income for Current Year	\$	330,912 319,064 (1,179,755) 16,019
2.	Deferral of Excess (Shortfall a. Current Year b. Current Year - 1 c. Current Year - 2 d. Current Year - 3 e. Total Deferred for Year	of Investment Income for: (80% Deferral) (60% Deferral) (40% Deferral) (20% Deferral)	\$	264,730 191,438 (471,902) 3,204 (12,530)
3.	Market Value of Plan Assets	, End of Year	\$	20,850,129
4.	Preliminary Actuarial Value (Item 3 - Item 2.e.)	of Plan Assets, End of Year	\$	20,862,659
5.	Actuarial Value of Assets Co a. 80% of Market Value o b. 120% of Market Value	f Assets, End of Year	\$ \$	16,680,103 25,020,155
6.		n Assets, End of Year (Item 4., ., or Greater Than Item 5.b.)	\$	20,862,659

### **Police Officers Retirement System Summary of Actuarial Assumptions and Methods**

### 1. <u>Investment Return to be Earned by Fund</u>

7.25% per annum, compounded annually, composed of an assumed 3.00% inflation rate and a 4.25% real rate of return, net of investment and administrative expenses.

### 2. <u>Salary Increases</u>

Salary increases are assumed in accordance with the following representative rates:

Years of	Annual	Years of	Annual
<b>Service</b>	<u>Increase</u>	<u>Service</u>	<b>Increase</b>
0	11.50%	8	4.75%
1	6.75%	9	4.75%
2	5.75%	10	4.75%
3	5.50%	11	4.75%
4	5.25%	12	4.50%
5	5.00%	13	4.50%
6	4.75%	14	4.50%
7	4.75%	15+	4.50%

### 3. Decrement Rates

The following are representative values of the assumed annual rates of withdrawal, inservice mortality, disability, and service retirement.

Annua	Patoc	O.t
Allilua	Nates	VI.

Age	Service Retirement*	Mortality	Disability
20		0.03%	0.12%
25		0.03%	0.14%
30		0.04%	0.18%
35		0.07%	0.35%
40		0.10%	0.46%
45	20.00%	0.14%	0.69%
50	20.00%	0.19%	0.86%
55	14.00%	0.27%	
60	15.00%	0.44%	
64	25.00%	0.63%	

<sup>\*</sup>Plus an additional 22% for participants under age 55 in year when first eligible for unreduced service retirement.

All employees are assumed to retire at age 65. In addition, 25% of disabilities are assumed to be duty related, and 5% of pre-retirement deaths are assumed to be accidental (duty-related).

**Probability of Decrement Due to Withdrawal** 

	Years of Service										
Age	0	1	2	3	4	5	6	7	8	9	10+
25	0.2494	0.1816	0.1342	0.1047	0.0885	0.0780	0.0715	0.0640	0.0545	0.0524	0.0618
30	0.2478	0.1822	0.1376	0.1107	0.0959	0.0876	0.0810	0.0732	0.0633	0.0545	0.0481
35	0.2450	0.1795	0.1359	0.1104	0.0967	0.0899	0.0837	0.0763	0.0665	0.0539	0.0381
40	0.2398	0.1739	0.1304	0.1055	0.0927	0.0868	0.0814	0.0747	0.0653	0.0510	0.0305
45	0.2312	0.1649	0.1212	0.0964	0.0845	0.0783	0.0738	0.0681	0.0595	0.0458	0.0256
50	0.2193	0.1532	0.1090	0.0839	0.0730	0.0646	0.0610	0.0564	0.0490	0.0382	0.0236
55	0.2050	0.1393	0.0944	0.0684	0.0587						
60	0.1871	0.1228	0.0773	0.0503	0.0419						

Note: No probability of withdrawal is applied to members eligible to retire.

### 4. Mortality After Retirement

For healthy retirees and beneficiaries, the UP-94 Mortality Table rates is used, with female rates set back one year and male rates set forward three years. A separate table of mortality rates is used for disabled retirees. The following are sample rates for the retirees and beneficiaries:

Healthy			Disabled
Age	Male	Female	All
50	0.39%	0.14%	2.30%
55	0.68%	0.22%	2.89%
60	1.23%	0.42%	3.62%
65	2.14%	0.82%	4.07%
70	3.35%	1.37%	4.43%
75	5.40%	2.19%	5.05%
80	8.87%	3.80%	6.77%
85	13.65%	6.56%	10.09%

### 5. Marriage Assumption

100% of all active members are assumed to be married, with female spouses being 4 years younger.

#### 6. Asset Valuation Method

The actuarial value of assets is equal to the market value of assets less a five-year phase in of the excess (shortfall) between expected investment return and actual net income (both based on market value) with the resulting value not being less than 80% or more than 120% of the market value of assets.

### 7. Cost Methods

### a. Normal Retirement, Termination, Death and Disability Benefits

Projected benefit method with level percentage entry age normal cost. Gains and losses are reflected in the period remaining to liquidate the unfunded actuarial liability. We completed a separate valuation of the accidental (duty-related) death benefit.

#### b. Group Life Insurance Benefit and Accidental Death Benefits

One-year term cost method.

#### 8. Unused Annual Leave

To account for the effect of unused annual leave on Average Final Compensation, liabilities for active members are increased 3.75%.

### 9. Unused Sick Leave

To account for the effect of unused sick leave on members' final credited service, the service of active members who retire is increased 3 months.

### 10. <u>Future Cost-of-Living Increases</u>

None assumed.

### 11. Administrative and Investment Expenses

The investment return assumption represents the expected return net of all administrative and investment expenses.

### 12. Payroll Growth Rate

4.00% per annum.

### 13. Change from Prior Valuation

There was a change in the application of the actuarial calculation methods as a result of the change in actuaries. The change is discussed in the parallel valuation prepared as of July 1, 2003.

### 14. Adoption Date

The current actuarial assumptions and methods were adopted by the State Budget and Control Board on April 20, 2004.

### **Police Officers Retirement System Development of Actuarial Value of Assets**

(Amounts expressed in thousands)

	Item		luation as of aly 1, 2004
	(1)		(2)
1.	Excess (Shortfall) of Investment Income for Current Year and Previous Three Years: a. Current Year b. Current Year - 1 c. Current Year - 2 d. Current Year - 3	\$	31,828 57,490 (143,238) (1,635)
2.	Deferral of Excess (Shortfall) of Investment Income for: a. Current Year (80% Deferral) b. Current Year - 1 (60% Deferral) c. Current Year - 2 (40% Deferral) d. Current Year - 3 (20% Deferral) e. Total Deferred for Year	\$	25,462 34,494 (57,295) (327) 2,334
3.	Market Value of Plan Assets, End of Year	\$	2,619,169
4.	Preliminary Actuarial Value of Plan aAssets, End of Year (Item 3 - Item 2.e.)	\$	2,616,835
5.	Actuarial Value of Assets Corrider a. 80% of Market Value of Assets, End of Year b. 120% of Market Value of Assets, End of Year	\$ \$	2,095,335 3,143,003
6.	Final Actuarial Value of Plan Assets, End of Year (Item 4., But Not Less Than Item 5.a., or Greater Than Item 5.b.)	\$	2,616,835

### **General Assembly Retirement System Summary of Actuarial Assumptions and Methods**

### 1. <u>Investment Return to be Earned by Fund</u>

7.25% per annum, compounded annually, composed of an assumed 3.00% inflation rate and a 4.25% real rate of return, net of investment and administrative expenses.

### 2. Salary Increases

None assumed.

### 3. Decrement Rates

The following are representative values of the assumed annual rates of in-service mortality, disability, and service retirement. No withdrawals are assumed. All members who are not re-elected are assumed to continue paying the member rate as a special contributor.

### a. Unreduced Service Retirement

<u>Age</u>	Rates of Retirement
60 & under	40%
61	7%
62	7%
63	7%
64	7%
65	15%
66	15%
67	15%
68	15%
69	15%
70 & older	100%

In addition, members with 30 years of service are assumed to commence benefit payments immediately even if they do not terminate employment.

### b. <u>In-service Mortality and Disability</u>

**Annual Rates of** 

	Mortality		Disability			
	<u>Empl</u>	<u>oyees</u>	<u>Empl</u>	<u>oyees</u>		
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>		
25	0.04%	0.01%	0.06%	0.05%		
30	0.04%	0.02%	0.12%	0.07%		
35	0.08%	0.03%	0.17%	0.15%		
40	0.11%	0.05%	0.29%	0.19%		
45	0.15%	0.07%	0.40%	0.27%		
50	0.21%	0.11%	0.58%	0.46%		
55	0.30%	0.16%	0.92%	0.74%		
60	0.49%	0.26%	1.15%	1.12%		
64	0.70%	0.35%	1.44%	1.56%		

### 4. Mortality After Retirement

For healthy retirees and beneficiaries, the UP-94 Mortality Table rates, with the female rates set back one year. A separate table of mortality rates is used for disabled retirees. The following are sample rates:

	Hea	lthy	Disabled			
Age	Male	Female	Male	Female		
50	0.28%	0.14%	3.06%	2.31%		
55	0.48%	0.22%	3.86%	2.66%		
60	0.86%	0.42%	4.82%	2.98%		
65	1.56%	0.82%	5.42%	3.33%		
70	2.55%	1.37%	5.91%	3.70%		
75	4.00%	2.19%	6.74%	4.43%		
80	6.67%	3.80%	9.02%	6.71%		
85	10.46%	6.56%	13.45%	10.15%		

### 5. Marriage Assumption

100% of all active and special contributor members are assumed to be married, with female spouses being 4 years younger.

#### 6. Asset Valuation Method

The actuarial value of assets is equal to the market value of assets less a five-year phase in of the excess (shortfall) between expected investment return and actual net income (both based on market value) with the resulting value not being less than 80% or more than 120% of the market value of assets.

### 7. Cost Method

Projected benefit method with level percentage entry age normal cost and close-end unfunded actuarial accrued liability. Gains and losses are amortized over the closed period.

### 8. Cost-of-Living Increases

None assumed.

### 9. Payroll Growth Rate

None assumed.

### 10. Administrative and Investment Expenses

The investment return assumption represents the expected return net of all administrative and investment expenses.

### 11. Changes from Prior Valuation

There was a change in the application of the actuarial calculation methods as a result of the change in actuaries. The change is discussed in the parallel valuation prepared as of July 1, 2003. In addition, we used the entry age normal cost method to value the group life insurance benefit. A one year term cost method was used in the prior valuation.

### 12. Adoption Date

The current actuarial assumptions and methods were adopted by the State Budget and Control Board on May 4, 2004.

# General Assembly Retirement System Development of Actuarial Value of Assets (Amounts expressed in thousands)

	Item		ation as of y 1, 2004
	(1)		(2)
1.	Excess (Shortfall) of Investment Income for Current Year and Previous Three Years:  a. Current Year  b. Current Year - 1 c. Current Year - 2 d. Current Year - 3	\$	927 1,068 (3,065) 61
2.	Deferral of Excess (Shortfall) of Investment Income for: a. Current Year (80% Deferral) b. Current Year - 1 (60% Deferral) c. Current Year - 2 (40% Deferral) d. Current Year - 3 (20% Deferral) e. Total Deferred for Year	\$ 	742 641 (1,226) 12 169
3.	Market Value of Plan Assets, End of Year	\$	45,256
4.	Preliminary Actuarial Value of Plan Assets, End of Year (Item 3 - Item 2.e.)	\$	45,087
5.	Actuarial Value of Assets Corrider a. 80% of Market Value of Assets, End of Year b. 120% of Market Value of Assets, End of Year	\$ \$	36,205 54,307
6.	Final Actuarial Value of Plan Assets, End of Year (Item 4., But Not Less Than Item 5.a., or Greater Than Item 5.b.)	\$	45,087

### **Judges and Solicitors Retirement System Summary of Actuarial Assumptions and Methods**

### 1. <u>Investment Return to be Earned by Fund</u>

7.25% per annum, compounded annually, composed of an assumed 3.00% inflation rate and a 4.25% real rate of return, net of investment and administrative expenses.

### 2. <u>Salary Increases</u>

3.25% per annum, compounded annually.

### 3. Disability and Pre-retirement Mortality Rates

The following are representative values of the assumed annual rates of disability and pre-retirement death.

**Disability Mortality Employees Employees** <u>Male</u> **Female** <u>Male</u> **Female** <u>Age</u> 25 0.06% 0.03% 0.04% 0.05% 30 0.07% 0.04% 0.06% 0.07% 35 0.07% 0.04% 0.08% 0.07% 40 0.10% 0.05% 0.15% 0.12% 45 0.18% 0.08% 0.25% 0.25% 50 0.30% 0.13% 0.40% 0.40% 55 0.46% 0.21% 0.65% 0.65%

**Annual Rates of** 

1.00%

1.25%

1.00%

1.25%

No in-service withdrawals are assumed.

0.33%

0.54%

### 4. Mortality After Retirement

60

64

For healthy retirees and beneficiaries, the 1983 Group Annuity Mortality Table rates. A separate table of mortality rates is used for disabled retirees. The following are sample rates for the healthy retirees and beneficiaries:

Age	Male	Female
60	0.92%	0.42%
65	1.56%	0.71%
70	2.75%	1.24%
75	4.46%	2.40%
80	7.41%	4.29%
85	11.48%	6.99%

0.65%

0.99%

### 5. Normal Retirement Assumption

Upon meeting the retirement eligibility requirement, participants are assumed to retire in the following manner:

Before age 65,

Year Eligible	Retirement Rate
1st	40%
2nd	25%
3rd and after	12%

After age 65,

Age	<b>Portion Retiring</b>
Under 72	12%
72 & over	100%

### 6. Marriage Assumption

95% of all active members are assumed to be married with female spouses being 3 years younger.

#### 7. Asset Valuation Method

The actuarial value of assets is equal to the market value of assets less a five-year phase in of the excess (shortfall) between expected investment return and actual net income (both based on market value) with the resulting value not being less than 80% or more than 120% of the market value of assets.

#### 8. Cost Methods

Projected benefit method with level percentage entry age normal cost. Gains and losses are reflected in the period remaining to liquidate the unfunded actuarial accrued liability.

### 9. <u>Cost-of-Living Increases</u>

3.25% per annum.

### 10. Administrative and Investment Expenses

The investment return assumption represents the expected return net of all administrative and investment expenses.

### 11. Payroll Growth Rate

3.25% per annum.

#### 12. Changes from Prior Valuation

There was a change in the application of the actuarial calculation methods as a result of the change in actuaries. The change is discussed in the parallel valuation prepared as of July 1, 2003. In addition, we used the entry age normal cost method to value the group life insurance benefit. A one year term cost method was used in the prior valuation.

### 13. Adoption Date

The current actuarial assumptions and methods were adopted by the State Budget and Control Board on April 20, 2004.

# Judges and Solicitors Retirement System Development of Actuarial Value of Assets (Amounts expressed in thousands)

_	Item		lation as of ly 1, 2004
1.	Excess (Shortfall) of Investment Income for Current Year and Previous Three Years: a. Current Year b. Current Year - 1 c. Current Year - 2 d. Current Year - 3	\$	1,619 1,878 (5,959) 658
2.	Deferral of Excess (Shortfall) of Investment Income for: a. Current Year (80% Deferral) b. Current Year - 1 (60% Deferral) c. Current Year - 2 (40% Deferral) d. Current Year - 3 (20% Deferral) e. Total Deferred for Year	\$	1,295 1,127 (2,384) 132 170
3.	Market Value of Plan Assets, End of Year	\$	112,186
4.	Preliminary Actuarial Value of Plan Assets, End of Year (Item 3 - Item 2.e.)	\$	112,016
5.	Actuarial Value of Assets Corrider a. 80% of Market Value of Assets, End of Year b. 120% of Market Value of Assets, End of Year	\$ \$	89,749 134,623
6.	Final Actuarial Value of Plan Assets, End of Year (Item 4., But Not Less Than Item 5.a., or Greater Than Item 5.b.)	\$	112,016

# South Carolina Retirement System Schedule of Active Member Valuation Data\* As of July 1, 2004

Valuation Date	Number of Employers	Number of Active Members	(in	Annual Payroll thousands)	Annual erage Pay	Percentage Increase In Average Pay
7-01-04	763	181,827	\$	6,180,599	\$ 33,992	1.06%
7-01-03	763	185,538		6,240,768	33,636	3.50%
7-01-02	746	189,166		6,147,712	32,499	3.42%
7-01-01	739	191,494		6,017,537	31,424	5.15%
7-01-00	729	196,825		5,881,847	29,884	5.49%
7-01-99	726	193,213		5,473,759	28,330	3.83%
7-01-98	720	190,259		5,191,048	27,284	2.78%
7-01-97	725	185,597		4,927,124	26,547	4.40%
7-01-96	713	178,540		4,540,100	25,429	3.28%
7-01-95	718	175,410		4,318,800	24,621	4.80%

<sup>\*</sup>Does not include Teacher and Employee Retention Incentive (TERI) participants.

### Police Officers Retirement System Schedule of Active Member Valuation Data As of July 1, 2004

Valuation Date	Number of Employers	Number of Active Members	Annual Payroll thousands)	Annual erage Pay	Percentage Increase In Average Pay
7-01-04	314	23,734	\$ 822,448	\$ 34,653	3.35%
7-01-03	314	23,871	800,394	33,530	6.08%
7-01-02	302	23,963	757,393	31,607	3.59%
7-01-01	296	24,821	757,335	30,512	5.50%
7-01-00	297	24,782	716,749	28,922	4.82%
7-01-99	307	23,127	638,086	27,591	4.11%
7-01-98	301	22,883	606,426	26,501	2.83%
7-01-97	297	21,829	562,553	25,771	4.31%
7-01-96	291	20,461	505,516	24,706	2.20%
7-01-95	280	19,657	475,176	24,173	5.11%

## General Assembly Retirement System Schedule of Active Member Valuation Data\* As of July 1, 2004

Number of Employers	Number of Active Members*	P	ayroll			Percentage Increase In Average Pay
2	170	\$	3,839	\$	22,582	(0.13%)
2	170		3,844		22,612	0.17%
2	200		4,515		22,573	(0.91%)
2	209		4,761		22,781	(0.12%)
2	213		4,858		22,808	0.31%
2	219		4,979		22,737	(0.26%)
2	211		4,810		22,797	0.00%
2	207		4,721		22,800	1.79%
2	213		4,772		22,400	0.00%
2	210		4,704		22,400	0.00%
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Number of Employers         of Active Members*           2         170           2         170           2         200           2         209           2         213           2         219           2         211           2         207           2         213	Number of Employers         of Active Members*         P (in the limit of the limit)           2         170         \$           2         170         \$           2         200         2           2         209         2         213           2         219         2         211           2         207         2         213	Number of Employersof Active Members*Payroll (in thousands)2170\$ 3,83921703,84422004,51522094,76122134,85822194,97922114,81022074,72122134,772	Number of Employers         of Active Members*         Payroll (in thousands)         Average Active (in thousands)           2         170         \$ 3,839         \$           2         170         3,844         \$           2         200         4,515         \$           2         209         4,761         \$           2         213         4,858         \$           2         219         4,979         \$           2         211         4,810         \$           2         207         4,721         \$           2         213         4,772	Number of Employersof Active Members*Payroll (in thousands)Annual Average Pay2170\$ 3,839\$ 22,58221703,84422,61222004,51522,57322094,76122,78122134,85822,80822194,97922,73722114,81022,79722074,72122,80022134,77222,400

<sup>\*</sup>Beginning July 1, 2003, does not include special contributors.

### Judges and Solicitors Retirement System Schedule of Active Member Valuation Data As of July 1, 2004

Valuation Date	Number of Employers	Number of Active Members	Annual Payroll (in thousands)		Annual erage Pay	Percentage Increase In Average Pay
7-01-04	2	128	\$	14,870	\$ 116,172	3.00%
7-01-03	2	128		14,437	112,789	1.59%
7-01-02	2	128		14,211	111,026	0.73%
7-01-01	2	128		14,109	110,223	4.26%
7-01-00	2	125		13,214	105,715	4.49%
7-01-99	2	126		12,748	101,174	4.99%
7-01-98	2	120		11,564	96,363	3.05%
7-01-97	2	120		11,221	93,508	6.38%
7-01-96	2	115		10,109	87,904	0.81%
7-01-95	2	108		9,417	87,194	5.13%

### South Carolina Retirement System The Number and Earnable Compensation of Active Members

As of July 1, 2004 (Dollar amounts expressed in thousands)

GROUP	NUMBER	CO	ANNUAL MPENSATION
State Employees	54,367	\$	1,990,543
Teachers	79,665		2,681,269
Other	47,795		1,508,787
Total	181,827	\$	6,180,599

Note: In addition, there are 146,718 inactive members with contributions still in the System. The results of the valuation were adjusted to take these members into account.

### Police Officers Retirement System The Number and Earnable Compensation of Active Members

As of July 1, 2004

(Dollar amounts expressed in thousands)

		ANNUAL
NUMBER	CON	<b>APENSATION</b>
00 =04		000.440
23,734	\$	822,448

Note: In addition, there are 9,597 inactive members contributions still in the System. The results of the valuation were adjusted to take these members into account.

### General Assembly Retirement System The Number and Earnable Compensation of Active Members

As of July 1, 2004 (Dollar amounts expressed in thousands)

	Α	NNUAL
<b>NUMBER</b>	COM	PENSATION
470		2.020
1/0	5	3.839

Note: There are 57 inactive members with contributions still in the System, and there are 39 special contributors. The results of the valuation were adjusted to take these members into account. Numbers shown above do not include open seats or members receiving retirement benefits while continuing in office.

## Judges and Solicitors Retirement System The Number and Earnable Compensation of Active Members As of July 1, 2004

(Dollar amounts expressed in thousands)

A	NNUAL	
COMPENSATION		
\$	14,870	
	•	

Note: There are three inactive members with contributions still in the System. The results of the valuation were adjusted to take these members into account. Numbers above were not adjusted for open seats.

# South Carolina Retirement System The Number and Annual Retirement Allowances of Retired Members and Beneficiaries\*

As of July 1, 2004 (Dollar amounts expressed in thousands)

GROUP	NUMBER	ANNUAL RETIREMENT ALLOWANCES	
Service Retirements:			
Employees:			
Men	17,772	\$	369,994
Women	19,290		277,026
Total	37,062		647,020
Teachers:			
Men	7,251		165,845
Women	28,936		483,400
Total	36,187		649,245
<b>Disability Retirements:</b>			
Employees:			
Men	2,730		30,861
Women	3,187		32,987
Total	5,917		63,848
Teachers:			
Men	788		10,005
Women	3,114		34,911
Total	3,902		44,916
Beneficiaries of Deceased Retired Members and Active Members:			
Men	1,718		11,239
Women	4,821		49,938
Total	6,539		61,177
Grand Total	89,607	\$	1,466,206

<sup>\*</sup>Includes Teacher and Employee Retention Incentive (TERI) participants.

# Police Officers Retirement System The Number and Annual Retirement Allowances of Retired Members and Beneficiaries

As of July 1, 2004 (Dollar amounts expressed in thousands)

GROUP	NUMBER	ANNUAL RETIREMENT ALLOWANCES		
Service Retirements:				
Men	5,823	\$	104,560	
Women	948		10,771	
Total	6,771		115,331	
Disability Retirements:				
Men	1,083		18,520	
Women	273		3,283	
Total	1,356		21,803	
Beneficiaries:				
Men	29		236	
Women	900		8,977	
Total	929		9,213	
Grand Total	9,056	\$	146,347	

# General Assembly Retirement System The Number and Annual Retirement Allowances of Beneficiaries and Contingent Beneficiaries As of July 1, 2004

(Dollar amounts expressed in thousands)

GROUP	NUMBER	ANNUAL RETIREMENT ALLOWANCES	
<b>Service Retirements:</b>			
Men	209	\$	3,886
Women	21		409
Total	230		4,295
<b>Disability Retirements:</b>			
Men	1		15
Women	0		0
Total	1		15
Beneficiaries:			
Men	0		0
Women	66		1,043
Total	66		1,043
Grand Total	297	\$	5,353

# Judges and Solicitors Retirement System The Number and Annual Retirement Allowances of Beneficiaries and Contingent Beneficiaries As of July 1, 2004

(Dollar amounts expressed in thousands)

NUMBER	RETI	INUAL REMENT WANCES
94 1	\$	7,716 81
95		7,797
1 0		83 0 83
12 31		272 909
43		1,181
139	\$	9,061
	94 1 95 1 0 1 12 31 43	NUMBER RETII ALLO  94 1 95 1 0 1 1 2 31 43

## South Carolina Retirement System Schedule of Retirants Added to and Removed from Rolls\* (Dollar amounts except average allowance expressed in thousands)

Year	Added	to Rolls Annual	Removed	from Rolls Annual	Rolls End of the Year Annual		% Increase in Annual	Average Annual
<b>Ended</b>	Number	Allowances	Number	Allowances	Number	Allowances	Allowances	Allowances
7-01-04	7,319	\$ 151,477	2,132	\$ 22,656	89,607	\$ 1,466,206	9.6%	\$ 16,363
7-01-03	7,866	163,867	2,510	27,662	84,420	1,337,385	11.3%	15,842
7-01-02	7,344	140,077	2,334	24,531	79,064	1,201,180	10.6%	15,193
7-01-01	12,523	284,739	2,474	23,735	74,054	1,085,634	31.7%	14,660
7-01-00	4,772	93,459	1,830	17,139	64,005	824,630	10.2%	12,884
7-01-99	4,961	68,522	2,436	12,175	61,063	748,310	8.1%	12,255
7-01-98	4,580	61,751	2,169	13,592	58,538	691,963	7.5%	11,321
7-01-97	4,601	78,201	2,346	10,928	56,127	643,804	11.7%	11,470
7-01-96	3,368	49,605	1,572	11,383	53,872	576,531	7.1%	10,702
7-01-95	4,153	58,435	1,399	9,970	52,076	538,289	9.9%	10,337

<sup>\*</sup>Includes Teacher and Employee Retention Incentive (TERI) participants.

# Police Officers Retirement System Schedule of Retirants Added to and Removed from Rolls (Dollar amounts except average allowance expressed in thousands)

	Added	to Rolls	Removed	Removed from Rolls		Rolls End of the Year		Average
Year		Annual		Annual		Annual	in Annual	Annual
<b>Ended</b>	Number	Allowances	Number	<b>Allowances</b>	Number	<u>Allowances</u>	<b>Allowances</b>	<b>Allowances</b>
7-01-04	894	\$ 16,256	265	\$ 2,923	9,056	\$ 146,348	10.8%	\$ 16,114
7-01-03	947	18,614	226	2,733	8,427	133,015	13.6%	15,784
7-01-02	956	17,378	220	2,639	7,706	117,134	14.4%	15,200
7-01-01	989	17,235	341	3,986	6,970	102,395	14.9%	14,691
7-01-00	549	9,979	152	1,581	6,322	89,146	10.4%	14,101
7-01-99	606	8,490	238	1,731	5,925	80,748	9.1%	13,628
7-01-98	492	6,924	154	1,085	5,557	73,989	8.6%	13,315
7-01-97	533	9,024	176	759	5,219	68,150	13.8%	13,058
7-01-96	415	5,866	100	791	4,862	59,885	9.3%	12,317
7-01-95	504	9,404	90	768	4,547	54,810	18.7%	12,054

# General Assembly Retirement System Schedule of Retirants Added to and Removed from Rolls (Dollar amounts except average allowance expressed in thousands)

Year	Added to Rolls Annual		Removed from Rolls Annual		Rolls End of the Year Annual		% Increase in Annual	Average Annual
<b>Ended</b>	Number	Allowances	Number	Allowances	Number	Allowances	<b>Allowances</b>	Allowances
7-01-04	12	\$ 185	9	\$ 119	297	\$ 5,353	1.2%	\$ 18,023
7-01-03	40	839	12	226	294	5,287	13.1%	17,983
7-01-02	24	453	9	160	266	4,674	6.7%	17,571
7-01-01	27	609	11	204	251	4,381	10.2%	17,454
7-01-00	8	118	7	110	235	3,976	0.2%	16,919
7-01-99	16	257	6	62	234	3,968	5.2%	16,957
7-01-98	9	125	6	159	224	3,773	(0.9%)	16,844
7-01-97	18	233	4	92	221	3,807	3.8%	17,226
7-01-96	6	159	4	43	207	3,666	3.3%	17,710
7-01-95	24	1,567	2	27	205	3,550	76.6%	17,317

# Judges and Solicitors Retirement System Schedule of Retirants Added to and Removed from Rolls (Dollar amounts except average allowance expressed in thousands)

		Added to Rolls		Removed from Rolls		Rolls End	of the Year	% Increase	Average
	Year		Annual		Annual		Annual	in Annual	Annual
	<b>Ended</b>	Number	<b>Allowances</b>	Number	<b>Allowances</b>	Number	<b>Allowances</b>	Allowances	Allowances
	7-01-04	11	\$ 925	2	\$ 139	139	\$ 9,061	9.5%	\$ 65,190
	7-01-03	11	716	7	493	130	8,275	2.8%	63,654
	7-01-02	13	706	5	248	126	8,052	6.0%	63,905
	7-01-01	9	685	6	442	118	7,594	3.3%	64,356
	7-01-00	7	772	4	276	115	7,351	7.2%	63,926
	7-01-99	9	598	3	209	112	6,855	6.0%	61,205
	7-01-98	8	812	3	198	106	6,466	10.5%	60,996
	7-01-97	4	746	4	187	101	5,852	10.6%	57,941
	7-01-96	7	1,014	0	0	101	5,293	11.9%	52,406
	7-01-95	8	802	1	63	94	4,729	18.5%	50,309

### Summary of Accrued and Unfunded Accrued Liabilites (Dollar amounts expressed in thousands)

	Valuation Date	Valuation Assets	Aggregate Accrued Liabilities	Actuarial Assets as a % of Actuarial Accrued Liabilities	Unfunded Accrued Liabilities	Annual Active Member Payroll	UAL as a % of Active Member Payroll
SCRS	7-01-04	\$20,862,659	\$25,977,852	80.3%	\$ 5,115,193	\$ 6,180,599	82.8%
	7-01-03	20,197,936	24,398,931	82.8%	4,200,995	6,240,768	67.3%
	7-01-02	19,298,174	22,446,574	86.0%	3,148,400	6,147,712	51.2%
	7-01-01	18,486,773	21,162,147	87.4%	2,675,374	6,017,537	44.5%
	7-01-00	17,286,108	19,414,972	89.0%	2,128,864	5,881,847	36.2%
	7-01-99	16,120,513	16,298,438	98.9%	177,925	5,473,759	3.3%
	7-01-98	14,946,070	15,952,345	93.7%	1,006,275	5,191,048	19.4%
	7-01-97	13,621,362	14,977,179	90.9%	1,355,817	4,927,124	27.5%
	7-01-96	12,499,235	14,062,092	88.9%	1,562,857	4,540,100	34.4%
	7-01-95	11,453,462	12,980,497	88.2%	1,527,035	4,318,827	35.4%
	Valuation	Valuation	Aggregate Accrued	Actuarial Assets as a % of Actuarial Accrued	Unfunded Accrued	Annual Active Member	UAL as a % of Active Member
PORS	Valuation Date	Valuation Assets		Assets as a % of Actuarial			of Active
PORS			Accrued Liabilities	Assets as a % of Actuarial Accrued	Accrued Liabilities	<b>Active Member</b>	of Active Member
PORS	<b>Date</b>	Assets	Accrued Liabilities	Assets as a % of Actuarial Accrued Liabilities	Accrued Liabilities	Active Member Payroll	of Active Member Payroll
PORS	7-01-04	<b>Assets</b> \$ 2,616,835	Accrued Liabilities  \$ 2,984,584	Assets as a % of Actuarial Accrued Liabilities 87.7%	Accrued Liabilities  \$ 367,749	Active Member Payroll \$ 822,448	of Active Member Payroll 44.7%
PORS	7-01-04 7-01-03	Assets  \$ 2,616,835 2,511,369	Accrued Liabilities  \$ 2,984,584	Assets as a % of Actuarial Accrued Liabilities 87.7% 91.5%	Accrued Liabilities  \$ 367,749 233,480	Active Member Payroll \$ 822,448 800,394	of Active Member Payroll 44.7% 29.2%
PORS	7-01-04 7-01-03 7-01-02	Assets  \$ 2,616,835 2,511,369 2,351,100	* 2,984,584 2,744,849 2,527,876	Assets as a % of Actuarial Accrued Liabilities 87.7% 91.5% 93.0%	Accrued Liabilities \$ 367,749 233,480 176,776	* 822,448 800,394 757,393	of Active Member Payroll 44.7% 29.2% 23.3%
PORS	7-01-04 7-01-03 7-01-02 7-01-01	\$ 2,616,835 2,511,369 2,351,100 2,197,982	**Xecrued Liabilities**  \$ 2,984,584	Assets as a % of Actuarial Accrued Liabilities  87.7% 91.5% 93.0% 94.6%	Accrued Liabilities \$ 367,749 233,480 176,776 126,275	* 822,448 800,394 757,393 757,335	of Active Member Payroll  44.7% 29.2% 23.3% 16.7%
PORS	7-01-04 7-01-03 7-01-02 7-01-01 7-01-00	\$ 2,616,835 2,511,369 2,351,100 2,197,982 2,008,554	\$ 2,984,584 2,744,849 2,527,876 2,324,257 2,095,991	Assets as a % of Actuarial Accrued Liabilities  87.7% 91.5% 93.0% 94.6% 95.8%	Accrued Liabilities \$ 367,749 233,480 176,776 126,275 87,437	* 822,448 800,394 757,393 757,335 716,749	of Active Member Payroll  44.7% 29.2% 23.3% 16.7% 12.2%
PORS	7-01-04 7-01-03 7-01-02 7-01-01 7-01-00 7-01-99	\$ 2,616,835 2,511,369 2,351,100 2,197,982 2,008,554 1,844,517	\$ 2,984,584 2,744,849 2,527,876 2,324,257 2,095,991 1,898,237	Assets as a % of Actuarial Accrued Liabilities  87.7% 91.5% 93.0% 94.6% 95.8% 97.2%	Accrued Liabilities \$ 367,749 233,480 176,776 126,275 87,437 53,720	* 822,448 800,394 757,393 757,335 716,749 638,086	of Active Member Payroll  44.7% 29.2% 23.3% 16.7% 12.2% 8.4%
PORS	7-01-04 7-01-03 7-01-02 7-01-01 7-01-00 7-01-99 7-01-98	\$ 2,616,835 2,511,369 2,351,100 2,197,982 2,008,554 1,844,517 1,684,641	\$ 2,984,584 2,744,849 2,527,876 2,324,257 2,095,991 1,898,237 1,733,578	87.7% 91.5% 93.0% 94.6% 97.2% 97.2%	**Sacrued Liabilities**  \$ 367,749	* 822,448 800,394 757,393 757,335 716,749 638,086 606,426	of Active Member Payroll  44.7% 29.2% 23.3% 16.7% 12.2% 8.4% 8.1%

Note: Effective 7-1-1995, actuarial assumptions were changed as a result of a 5 year experience study, the investment return assumption was changed from 8% to 7.25%, an assumption of future COLA adjustments was removed (SCRS and PORS) and the method of valuing assets was changed from book value to a smoothed market value.

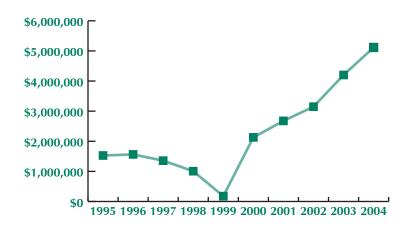
Effective 7-1-1999, actuarial assumptions were changed as a result of a 5 year experience study.

Effective for the 7-1-2000 valuation, eligibility for an unreduced retirement annuity under SCRS was reduced from 30 years of service to 28 year. The SCRS also adopted a deferred retirement option plan.

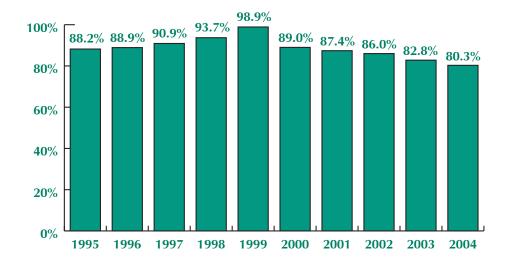
Effective 7-1-2003, actuarial assumptions were changed as a result of a 5 year experience study. The rates of salary increase assumption, the assumed retirement rates, disability incidence assumptions and withdrawal rate assumptions were revised for both SCRS and PORS. In addition, the assumed mortality rates for retired SCRS members were revised, along with the assumed mortality rates of active and disabled members for PORS.

### **South Carolina Retirement System Funding Progress with Funded Ratios**

**Unfunded Accrued Liabilities** (Amounts expressed in thousands)

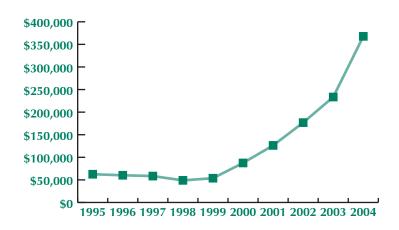


Funded Ratios (Actuarial assets as a percentage of actuarial accrued liabilities)

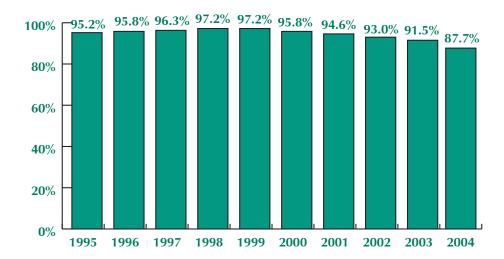


# **Police Officers Retirement System Funding Progress with Funded Ratios**

**Unfunded Accrued Liabilities** (Amounts expressed in thousands)



Funded Ratios (Actuarial assets as a percentage of actuarial accrued liabilities)



## Summary of Accrued and Unfunded Accrued Liabilites (Dollar amounts expressed in thousands)

GARS	Valuation Date	Valuation Assets	Aggregate Accrued Liabilities	Actuarial Assets as a % of Actuarial Accrued Liabilities	Unfunded Accrued Liabilities	Annual Active Member Payroll	UAL as a % of Active Member Payroll
	7-01-04	\$ 45,083	7 \$ 68,332	66.0%	\$ 23,245	\$ 3,839	605.5%
	7-01-03	44,682	,	67.1%	21,937	3,844	570.8%
	7-01-02	43,84	,	60.0%	29,205	4,515	646.9%
	7-01-01	42,78		62.7%	25,503	4,761	535.6%
	7-01-00	40,730	,	63.7%	23,217	4,858	477.9%
	7-01-99	38,68	,	60.9%	24,816	4,979	498.4%
	7-01-98	36,260	,	60.1%	24,070		500.4%
	7-01-97	33,62	,	56.0%	26,425	4,721	559.7%
	7-01-96	31,70		52.9%	28,213	4,771	591.3%
	7-01-95	30,528	3 58,577	52.1%	28,049	4,704	596.3%
JSRS	Valuation Date	Valuation Assets	Aggregate Accrued Liabilities	Actuarial Assets as a % of Actuarial Accrued Liabilities	Unfunded Accrued Liabilities	Annual Active Member Payroll	UAL as a % of Active Member Payroll
JSRS	Date	Assets	Accrued Liabilities	Assets as a % of Actuarial Accrued Liabilities	Accrued Liabilities	Active Member Payroll	of Active Member Payroll
JSRS	7-01-04	<b>Assets</b> \$ 112,01	Accrued Liabilities  5 \$ 185,052	Assets as a % of Actuarial Accrued Liabilities 60.5%	Accrued Liabilities 73,036	Active Member Payroll  \$ 14,870	of Active Member Payroll 491.2%
JSRS	7-01-04 7-01-03	\$ 112,016 106,11	Accrued Liabilities 5 \$ 185,052 4 166,655	Assets as a % of Actuarial Accrued Liabilities 60.5% 63.7%	Accrued Liabilities  \$ 73,036 60,541	Active Member Payroll  \$ 14,870   14,437	of Active Member Payroll 491.2% 419.3%
JSRS	7-01-04 7-01-03 7-01-02	\$ 112,014 106,114 100,07	Accrued Liabilities 5 \$ 185,052 4 166,655 4 166,440	Assets as a % of Actuarial Accrued Liabilities  60.5% 63.7% 60.1%	*** 73,036 60,541 66,366	*** Active Member Payroll**  \$ 14,870	of Active Member Payroll 491.2% 419.3% 467.0%
JSRS	7-01-04 7-01-03	\$ 112,010 106,112 100,074 94,79	Accrued Liabilities 5 \$ 185,052 4 166,655 4 166,440 5 159,246	Assets as a % of Actuarial Accrued Liabilities  60.5% 63.7% 60.1% 59.5%	Accrued Liabilities  \$ 73,036 60,541 66,366 64,451	** 14,870	of Active Member Payroll 491.2% 419.3% 467.0% 456.8%
JSRS	7-01-04 7-01-03 7-01-02 7-01-01	\$ 112,014 106,114 100,07	Accrued Liabilities 5 \$ 185,052 4 166,655 4 166,440 5 159,246 6 144,631	Assets as a % of Actuarial Accrued Liabilities  60.5% 63.7% 60.1%	*** 73,036 60,541 66,366	*** Active Member Payroll**  \$ 14,870	of Active Member Payroll 491.2% 419.3% 467.0%
JSRS	7-01-04 7-01-03 7-01-02 7-01-01 7-01-00	\$ 112,010 106,114 100,074 94,790 87,530	Accrued Liabilities  5 \$ 185,052 4 166,655 4 166,440 5 159,246 6 144,631 0 134,272	Assets as a % of Actuarial Accrued Liabilities  60.5% 63.7% 60.1% 59.5% 60.5%	* 73,036 60,541 66,366 64,451 57,095 52,492	\$ 14,870 14,437 14,211 14,109 13,214	of Active Member Payroll 491.2% 419.3% 467.0% 456.8% 432.1%
JSRS	7-01-04 7-01-03 7-01-02 7-01-01 7-01-00 7-01-99	\$ 112,010 106,110 100,070 94,790 87,530 81,780	Accrued Liabilities  5 \$ 185,052 4 166,655 4 166,440 5 159,246 6 144,631 0 134,272 9 124,756	Assets as a % of Actuarial Accrued Liabilities  60.5% 63.7% 60.1% 59.5% 60.5% 60.9%	* 73,036 60,541 66,366 64,451 57,095	\$ 14,870 14,437 14,211 14,109 13,214 12,748	of Active Member Payroll 491.2% 419.3% 467.0% 456.8% 432.1% 411.8%
JSRS	7-01-04 7-01-03 7-01-02 7-01-01 7-01-00 7-01-99 7-01-98	\$ 112,014 106,114 100,074 94,794 87,534 81,786 75,69	Accrued Liabilities  5 \$ 185,052 4 166,655 4 166,440 5 159,246 6 144,631 1 34,272 9 124,756 0 112,185	Assets as a % of Actuarial Accrued Liabilities  60.5% 63.7% 60.1% 59.5% 60.5% 60.9% 60.7%	* 73,036 60,541 66,366 64,451 57,095 52,492 49,057	\$ 14,870 14,437 14,211 14,109 13,214 12,748 11,564	of Active Member Payroll 491.2% 419.3% 467.0% 456.8% 432.1% 411.8% 424.2%

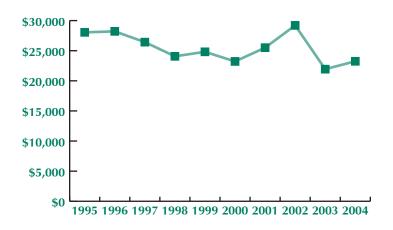
Note: Effective 7-1-1995, the investment return assumption was changed from 8% to 7.25% and the method of valuing assets was changed from book value to a smoothed market value.

The July 1, 2002, GARS valuation reflected the change in legislation effective January 1, 2003, which allows a member who has attained the age of 70 or has 30 years of service to retire and draw an annuity while continuing to serve in the General Assembly.

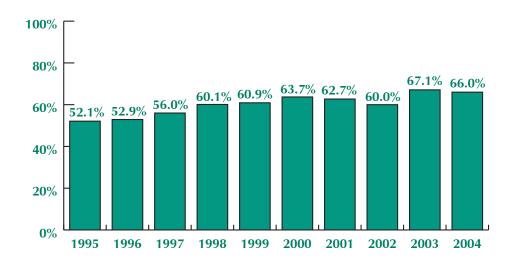
Effective 7-1-2003, actuarial assumptions for GARS and JSRS were changed as a result of a 5 year experience study. The rates of salary increase assumption, the assumed retirement rates, and disability incidence assumptions were revised.

# **General Assembly Retirement System Funding Progress with Funded Ratios**

**Unfunded Accrued Liabilities** (Amounts expressed in thousands)

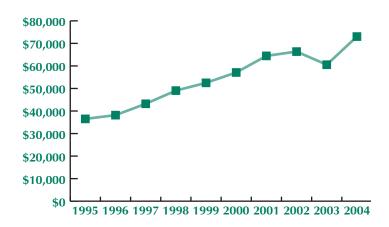


Funded Ratios (Actuarial assets as a percentage of actuarial accrued liabilities)

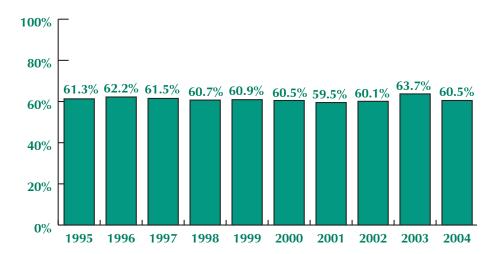


# **Judges and Solicitors Retirement System Funding Progress with Funded Ratios**

**Unfunded Accrued Liabilities** (Amounts expressed in thousands)



Funded Ratios (Actuarial assets as a percentage of actuarial accrued liabilities)



# South Carolina Retirement System Analysis of the Increase in the Unfunded Accrued Liability As of July 1, 2004

(Amounts expressed in millions)

Item:	Amount of Increase (Decrease)			
Beginning of Year Unfunded Actuarial Liability	\$	4, 201		
Interest on Unfunded Actuarial Liability		305		
Amortization Payment		(244)		
Asset Experience		228		
Salary Experience		(150)		
Other Liability Experience		(124)		
COLA		209		
Benefit Changes		0		
Assumption/Method Changes		690		
Total Increase/(Decrease)	\$	914		
End of Year Unfinded Actuarial Liability	\$	5,115		

# Police Officers Retirement System Analysis of the Increase in the Unfunded Accrued Liability As of July 1, 2004

(Amounts expressed in millions)

Beginning of Year Unfunded Actuarial Liability Interest on Unfunded Actuarial Liability Amortization Payment Asset Experience Salary Experience Other Liability Experience COLA Benefit Changes Assumption/Method Changes Total Increase/(Decrease) End of Year Unfinded Actuarial Liability  \$  (Decrease)  \$  End of Year Unfunded Actuarial Liability	Amount of Increase (Decrease)			
Interest on Unfunded Actuarial Liability Amortization Payment Asset Experience Salary Experience Other Liability Experience COLA Benefit Changes Assumption/Method Changes Total Increase/(Decrease)  \$	ecrease)			
Amortization Payment Asset Experience Salary Experience Other Liability Experience COLA Benefit Changes Assumption/Method Changes Total Increase/(Decrease)  \$	233.5			
Asset Experience Salary Experience Other Liability Experience COLA Benefit Changes Assumption/Method Changes Total Increase/(Decrease)  \$	16.9			
Salary Experience Other Liability Experience COLA Benefit Changes Assumption/Method Changes Total Increase/(Decrease)  \$	(28.4)			
Other Liability Experience COLA Benefit Changes Assumption/Method Changes Total Increase/(Decrease)  \$	68.0			
COLA Benefit Changes Assumption/Method Changes Total Increase/(Decrease)  \$	(19.0)			
Benefit Changes Assumption/Method Changes Total Increase/(Decrease)  \$	50.9			
Assumption/Method Changes Total Increase/(Decrease) \$	20.2			
Total Increase/(Decrease) \$	0.0			
	25.6			
End of Year Unfinded Actuarial Liability \$	134.2			
	367.7			

Note: This analysis was not presented for the General Assembly Retirement System and the Judges and Solicitors Retirement System.

**Solvency Test**(Dollar amounts expressed in thousands)

	Valuation		(1) Active Member	(2) Retirants &	(3) tive Members pployer Funded	Valuation	Liabilities	Aggregate A	Assets
	Date	Co	ntributions	Beneficiaries	Portion)	Assets	(1)	(2)	(3)
SCRS	7-01-04	\$	4,750,077	\$ 14,184,765	\$ 7,043,010	\$ 20,862,659	100%	100%	27.4%
	7-01-03		4,627,360	13,240,368	6,531,203	20,197,936	100%	100%	35.7%
	7-01-02		4,512,402	11,600,395	6,333,777	19,298,174	100%	100%	50.3%
	7-01-01		4,339,747	10,367,913	6,454,487	18,486,773	100%	100%	58.6%
	7-01-00		4,563,513	7,484,050	7,367,149	17,286,108	100%	100%	71.1%
	7-01-99		4,278,861	6,944,021	5,075,556	16,120,513	100%	100%	96.5%
	7-01-98		3,972,263	6,305,903	5,674,179	14,946,070	100%	100%	82.3%
	7-01-97		3,657,217	5,866,156	5,453,806	13,621,362	100%	100%	75.1%
	7-01-96		3,399,816	5,349,968	5,312,308	12,499,235	100%	100%	70.6%
	7-01-95		3,085,531	4,950,378	4,944,588	11,453,462	100%	100%	69.1%
PORS	7-01-04	\$	548,699	\$ 1,415,627	\$ 1,020,258	\$ 2,616,835	100%	100%	64.0%
	7-01-03		516,313	1,265,173	963,363	2,511,369	100%	100%	75.8%
	7-01-02		492,178	1,136,998	898,700	2,351,100	100%	100%	80.3%
	7-01-01		464,217	977,769	882,271	2,197,982	100%	100%	85.7%
	7-01-00		427,449	844,631	823,911	2,008,554	100%	100%	89.4%
	7-01-99		389,456	783,042	725,739	1,844,517	100%	100%	92.6%
	7-01-98		352,424	702,155	678,999	1,684,641	100%	100%	92.8%
	7-01-97		314,217	645,356	611,243	1,512,390	100%	100%	90.4%
	7-01-96		284,655	565,405	577,726	1,367,549	100%	100%	89.6%
	7-01-95		251,255	519,795	528,069	1,236,610	100%	100%	88.2%
PORS	7-01-03 7-01-02 7-01-01 7-01-00 7-01-99 7-01-98 7-01-97 7-01-96	\$	516,313 492,178 464,217 427,449 389,456 352,424 314,217 284,655	1,265,173 1,136,998 977,769 844,631 783,042 702,155 645,356 565,405	\$ 963,363 898,700 882,271 823,911 725,739 678,999 611,243 577,726	\$ 2,511,369 2,351,100 2,197,982 2,008,554 1,844,517 1,684,641 1,512,390 1,367,549	100% 100% 100% 100% 100% 100% 100%	100% 100% 100% 100% 100% 100% 100%	75 80 85 89 92 92 90 89

Note: Effective 7-1-1995, actuarial assumptions were changed as a result of a 5 year experience study, the investment return assumption was changed from 8% to 7.25%, an assumption of future COLA adjustments was removed (SCRS and PORS) and the method of valuing assets was changed from book value to a smoothed market value.

Effective 7-1-1999, actuarial assumptions were changed as a result of a 5 year experience study.

Effective for the 7-1-2000 valuation, eligibility for an unreduced retirement annuity under SCRS was reduced from 30 years of service to 28 years. The SCRS also adopted a deferred retirement option plan.

Effective 7-1-2003, actuarial assumptions were changed as a result of a 5 year experience study. The rates of salary increase assumption, the assumed retirement rates, disability incidence assumptions and withdrawal rate assumptions were revised for both SCRS and PORS. In addition, the assumed mortality rates for retired SCRS members were revised, along with the assumed mortality rates of active and disabled members for PORS.

**Solvency Test** (Dollar amounts expressed in thousands)

Valuation	M	ember		&		ployer Funded	•	Valuation	Liabilities	Covered by	y Assets
Date	Cont	ributions	Ber	neficiaries		Portion)	_	Assets	(1)	(2)	(3)
7-01-04	\$	8,485	\$	48,126	\$	11,721	\$	45,087	100%	76.1%	0.0%
7-01-03		8,324		46,781		11,515		44,682	100%	77.7%	0.0%
7-01-02		9,470		47,485		16,091		43,841	100%	72.4%	0.0%
7-01-01		9,329		45,013		13,949		42,788	100%	74.3%	0.0%
7-01-00		9,220		39,409		15,318		40,730	100%	80.0%	0.0%
7-01-99		8,459		40,298		14,744		38,685	100%	75.0%	0.0%
7-01-98		7,898		38,282		14,150		36,260	100%	74.1%	0.0%
7-01-97		7,224		39,214		13,614		33,627	100%	67.3%	0.0%
7-01-96		6,811		37,876		15,228		31,702	100%	65.7%	0.0%
7-01-95		6,160		37,387		15,030		30,528	100%	65.2%	0.0%
7-01-04	\$	17,640	\$	106,159	\$	61,253	\$	112,016	100%	88.9%	0.0%
7-01-03		16,545		96,409		53,701		106,114	100%	92.9%	0.0%
7-01-02		16,162		101,716		48,562		100,074	100%	82.5%	0.0%
7-01-01		15,254		97,512		46,480		94,795	100%	81.6%	0.0%
7-01-00		12,979		94,633		37,019		87,536	100%	78.8%	0.0%
7-01-99		12,286		87,464		34,522		81,780	100%	79.5%	0.0%
7-01-98		11,424		81,193		32,139		75,699	100%	79.2%	0.0%
7-01-97		10,819		70,724		30,642		68,980	100%	82.2%	0.0%
7-01-96		9,633		65,238		26,149		62,850	100%	81.6%	0.0%
7-01-95		9,566		58,586		26,268		57,917	100%	82.5%	0.0%
	7-01-04 7-01-02 7-01-01 7-01-00 7-01-99 7-01-98 7-01-95 7-01-04 7-01-03 7-01-02 7-01-01 7-01-00 7-01-99 7-01-98 7-01-99 7-01-98 7-01-97 7-01-96	Valuation Date         M Cont           7-01-04         \$           7-01-03         7-01-02           7-01-01         7-01-00           7-01-99         7-01-98           7-01-96         7-01-96           7-01-02         \$           7-01-03         7-01-03           7-01-01         7-01-00           7-01-99         7-01-98           7-01-98         7-01-98           7-01-96         7-01-96	Valuation Date         Active Member Contributions           7-01-04         \$ 8,485           7-01-03         8,324           7-01-01         9,329           7-01-00         9,220           7-01-99         8,459           7-01-98         7,898           7-01-97         7,224           7-01-96         6,811           7-01-95         6,160           7-01-04         \$ 17,640           7-01-03         16,545           7-01-04         \$ 17,640           7-01-03         16,545           7-01-04         \$ 17,640           7-01-09         15,254           7-01-01         15,254           7-01-99         12,286           7-01-98         11,424           7-01-97         10,819           7-01-96         9,633	Valuation Date         Active Member Contributions         Rember Ber           7-01-04         \$ 8,485         \$           7-01-03         8,324         \$           7-01-01         9,329         \$           7-01-00         9,220         \$           7-01-99         8,459         \$           7-01-98         7,898         \$           7-01-97         7,224         \$           7-01-96         6,811         \$           7-01-95         6,160         \$           7-01-03         16,545         \$           7-01-03         16,545         \$           7-01-01         15,254         \$           7-01-02         16,162         \$           7-01-99         12,286         \$           7-01-98         11,424         \$           7-01-97         10,819         \$           7-01-96         9,633         \$	Valuation DateActive Member ContributionsRetirants & Beneficiaries7-01-04\$ 8,485\$ 48,1267-01-038,32446,7817-01-029,47047,4857-01-019,32945,0137-01-009,22039,4097-01-998,45940,2987-01-987,89838,2827-01-977,22439,2147-01-966,81137,8767-01-956,16037,3877-01-04\$ 17,640\$ 106,1597-01-0316,54596,4097-01-0415,25497,5127-01-0115,25497,5127-01-0012,97994,6337-01-9912,28687,4647-01-9811,42481,1937-01-9710,81970,7247-01-969,63365,238	Valuation Date         Active Contributions         Retirants & Emericiaries         Active Member & Beneficiaries           7-01-04         \$ 8,485         \$ 48,126         \$ 7-01-03           7-01-03         8,324         46,781           7-01-01         9,329         45,013           7-01-00         9,220         39,409           7-01-99         8,459         40,298           7-01-98         7,898         38,282           7-01-97         7,224         39,214           7-01-96         6,811         37,876           7-01-95         6,160         37,387           7-01-04         \$ 17,640         \$ 106,159         \$           7-01-03         16,545         96,409         \$           7-01-04         \$ 17,640         \$ 106,159         \$           7-01-03         16,545         96,409         \$           7-01-04         \$ 17,640         \$ 106,159         \$           7-01-09         16,162         101,716         \$           7-01-01         15,254         97,512         \$           7-01-99         12,286         87,464         \$           7-01-98         11,424         81,193 <td< th=""><th>Valuation DateActive Member ContributionsRetirants &amp; Employer Funded Portion)7-01-04\$ 8,485\$ 48,126\$ 11,7217-01-038,32446,78111,5157-01-029,47047,48516,0917-01-019,32945,01313,9497-01-009,22039,40915,3187-01-998,45940,29814,7447-01-987,89838,28214,1507-01-977,22439,21413,6147-01-966,81137,87615,2287-01-956,16037,38715,0307-01-04\$ 17,640\$ 106,159\$ 61,2537-01-0316,54596,40953,7017-01-0216,162101,71648,5627-01-0115,25497,51246,4807-01-0012,97994,63337,0197-01-9912,28687,46434,5227-01-9811,42481,19332,1397-01-9710,81970,72430,6427-01-969,63365,23826,149</th><th>Valuation Date         Active Member Contributions         Retirants &amp; Employer Funded Portion           7-01-04         \$ 8,485         \$ 48,126         \$ 11,721         \$ 7-01-03         \$ 8,324         46,781         11,515         11,515         16,091         7-01-02         9,470         47,485         16,091         13,949         15,318         13,949         15,318         17-01-00         9,220         39,409         15,318         14,744         17,01-99         8,459         40,298         14,744         13,614</th><th>Valuation DateActive Member ContributionsRetirants &amp; Employer Funded PortionValuation Assets7-01-04\$ 8,485\$ 48,126\$ 11,721\$ 45,0877-01-038,32446,78111,51544,6827-01-049,47047,48516,09143,8417-01-019,32945,01313,94942,7887-01-009,22039,40915,31840,7307-01-998,45940,29814,74438,6857-01-987,89838,28214,15036,2607-01-977,22439,21413,61433,6277-01-966,81137,87615,22831,7027-01-956,16037,38715,03030,5287-01-04\$ 17,640\$ 106,159\$ 61,253\$ 112,0167-01-0316,54596,40953,701106,1147-01-04\$ 15,25497,51246,48094,7957-01-0115,25497,51246,48094,7957-01-0912,28687,46434,52281,7807-01-9912,28687,46434,52281,7807-01-9710,81970,72430,64268,9807-01-9710,81970,72430,64268,9807-01-969,63365,23826,14962,850</th><th>Valuation DateActive Member ContributionsRetirants &amp; Employer Funded Portion)Valuation AssetsPortion of Liabilities (1)7-01-04\$8,485\$48,126\$11,721\$45,087100%7-01-038,32446,78111,51544,682100%7-01-049,32945,01313,94942,788100%7-01-009,22039,40915,31840,730100%7-01-998,45940,29814,74438,685100%7-01-987,89838,28214,15036,260100%7-01-977,22439,21413,61433,627100%7-01-966,81137,87615,22831,702100%7-01-956,16037,38715,03030,528100%7-01-04\$17,640\$106,159\$61,253\$112,016100%7-01-0316,54596,40953,701106,114100%7-01-04\$15,25497,51246,48094,795100%7-01-0115,25497,51246,48094,795100%7-01-9912,28687,46434,52281,780100%7-01-9811,42481,19332,13975,699100%7-01-9710,81970,72430,64268,980100%7-01-9710,81970,72430,64268,980100%7-01-969,63365,23826,14962,850100%</th><th>Valuation Date         Active Member Contributions         Retirants &amp; Employer Funded Portion         Valuation Assets         Portion of Aggregate Liabilities Covered by Liabilities Covered b</th></td<>	Valuation DateActive Member ContributionsRetirants & Employer Funded Portion)7-01-04\$ 8,485\$ 48,126\$ 11,7217-01-038,32446,78111,5157-01-029,47047,48516,0917-01-019,32945,01313,9497-01-009,22039,40915,3187-01-998,45940,29814,7447-01-987,89838,28214,1507-01-977,22439,21413,6147-01-966,81137,87615,2287-01-956,16037,38715,0307-01-04\$ 17,640\$ 106,159\$ 61,2537-01-0316,54596,40953,7017-01-0216,162101,71648,5627-01-0115,25497,51246,4807-01-0012,97994,63337,0197-01-9912,28687,46434,5227-01-9811,42481,19332,1397-01-9710,81970,72430,6427-01-969,63365,23826,149	Valuation Date         Active Member Contributions         Retirants & Employer Funded Portion           7-01-04         \$ 8,485         \$ 48,126         \$ 11,721         \$ 7-01-03         \$ 8,324         46,781         11,515         11,515         16,091         7-01-02         9,470         47,485         16,091         13,949         15,318         13,949         15,318         17-01-00         9,220         39,409         15,318         14,744         17,01-99         8,459         40,298         14,744         13,614	Valuation DateActive Member ContributionsRetirants & Employer Funded PortionValuation Assets7-01-04\$ 8,485\$ 48,126\$ 11,721\$ 45,0877-01-038,32446,78111,51544,6827-01-049,47047,48516,09143,8417-01-019,32945,01313,94942,7887-01-009,22039,40915,31840,7307-01-998,45940,29814,74438,6857-01-987,89838,28214,15036,2607-01-977,22439,21413,61433,6277-01-966,81137,87615,22831,7027-01-956,16037,38715,03030,5287-01-04\$ 17,640\$ 106,159\$ 61,253\$ 112,0167-01-0316,54596,40953,701106,1147-01-04\$ 15,25497,51246,48094,7957-01-0115,25497,51246,48094,7957-01-0912,28687,46434,52281,7807-01-9912,28687,46434,52281,7807-01-9710,81970,72430,64268,9807-01-9710,81970,72430,64268,9807-01-969,63365,23826,14962,850	Valuation DateActive Member ContributionsRetirants & Employer Funded Portion)Valuation AssetsPortion of Liabilities (1)7-01-04\$8,485\$48,126\$11,721\$45,087100%7-01-038,32446,78111,51544,682100%7-01-049,32945,01313,94942,788100%7-01-009,22039,40915,31840,730100%7-01-998,45940,29814,74438,685100%7-01-987,89838,28214,15036,260100%7-01-977,22439,21413,61433,627100%7-01-966,81137,87615,22831,702100%7-01-956,16037,38715,03030,528100%7-01-04\$17,640\$106,159\$61,253\$112,016100%7-01-0316,54596,40953,701106,114100%7-01-04\$15,25497,51246,48094,795100%7-01-0115,25497,51246,48094,795100%7-01-9912,28687,46434,52281,780100%7-01-9811,42481,19332,13975,699100%7-01-9710,81970,72430,64268,980100%7-01-9710,81970,72430,64268,980100%7-01-969,63365,23826,14962,850100%	Valuation Date         Active Member Contributions         Retirants & Employer Funded Portion         Valuation Assets         Portion of Aggregate Liabilities Covered by Liabilities Covered b

Note: Effective 7-1-1995, the investment return assumption was changed from 8% to 7.25% and the method of valuing assets was changed from book value to a smoothed market value.

The July 1, 2002 GARS valuation reflected the change in legislation effective January 1, 2003, which allows a member who has attained the age of 70 or has 30 years of service to retire and draw an annuity while continuing to serve in the General Assembly.

Effective 7-1-2003, actuarial assumptions for GARS and JSRS were changed as a result of a 5 year experience study. The rates of salary increase assumption, the assumed retirement rates, and disability incidence assumptions were revised.

## **Summary of Basic Provisions**

**SCRS PORS GARS JSRS** 

#### Membership

All permanent, full-time and part-time employees of covered employers must join unless specifically exempted by statute or are eligible and elect to participate in the State ORP.

To be eligible for PORS membership, an employee must be required by the terms of his employment, by election or appointment, to preserve public order, protect life and property, and detect crimes in the state; to prevent and control property destruction by fire; be a coroner or deputy coroner in a full-time permanent position; or be a peace officer employed by the Department of Corrections, the Department of Juvenile Justice, or the Department of Mental Health. Probate judges and coroners may elect membership in PORS. Magistrates are required to participate in PORS for service as a magistrate. PORS members, other than magistrates and probate judges, must also earn at least \$2,000 per year and devote at least 1,600 hours per year to this work, unless exempted by statute.

Generally, all persons are required to participate upon taking office as member of the General Assembly unless exempted by statute.

All solicitors, judges of a Circuit or Family Court, and justices of the Court of Appeals and Supreme Court are required to participate upon taking office unless exempted by statute.

#### **Employee Contributions**

5% of earnable compensation

#### Class II

6% of earnable compensation

#### **Employer Contributions**

4.25% of earnable compensation

7.55% of earnable compensation for State Agencies and Public Schools

6.7% of earnable compensation for all other participating employers

#### **Group Life Insurance**

0.15% of earnable compensa-

#### **Accidental Death Program**

#### Class I

\$21 per month

#### Class II

Class I

6.5% of earnable compensation

7.8% of earnable compensation

10.3% of earnable compensa-

tion

**Group Life Insurance** 

0.2% of earnable compensation

0.2% of earnable compensation

**Accidental Death Program** 

Annual lump-sum appropria-

10% of earnable compensation

## **Group Life Insurance**

Included within annual lumpsum appropriation

### **Accidental Death Program**

## 41.65% of earnable compensa-

8% of earnable compensation

#### **Group Life Insurance**

0.45% of earnable compensa-

#### **Accidental Death Program**

SCRS	PORS	GARS	JSRS		
4. Vesting Requirements					
5 years earned service  The member is entitled to a	5 years earned service  The member is entitled to a	8 years service  The member is entitled to a	10 years earned service in position of judge; 8 years earned service in position of solicitor.		
deferred annuity at age 60.	deferred annuity at age 55.	deferred annuity at age 60.	For members who joined prior to 7/1/2004, member is eligible for a deferred annuity at age 55 with 12 years in position. For members who joined after 6/30/2004, member is eligible for a deferred annuity at age 65.		
5. Normal Retirement Age					
Age 65	Age 55	Age 60	Varies depending on service		
6. Requirements for Full Serv	vice Retirement				
Age 65 or 28 years of credited	Age 55 with 5 years of service	Age 60 or 30 years of service	Age 70 with 15 years of service		
service  The member must have a mini-	or 25 years of credited service  The member must have a mini-	Age 70 or 30 years of service while continuing to serve in the	Age 65 with 20 years of service		
mum of five years of earned service to qualify for retirement.	mum of five years of earned service to qualify for retirement.	General Assembly	25 years of service as a judge regardless of age		
			24 years of service as a solicitor regardless of age		
			Age 65 with 4 years earned service as judge or solicitor and at least 25 years other service with the state if a member as of 6/30/2004.		
7. Early Retirement					
Age 60 with 5% reduction for each year of age under age 65	Age 55 with five years of service credit	Age 60 with 8 years of service credit	Age 55 with 10 years of service in the position of a judge or 8 years of service in the posi-		
Age 55 with 25 years service, reduced 4% for each year of service under 28	The member must have a minimum of five years of earned service to qualify for early		tion of a solicitor for members who joined the system prior to 7/1/2004. For members who		
The member must have a minimum of five years of earned service to qualify for early retirement.	retirement.		joined after 6/30/2004, the age requirement is 65.		
8. Formula for Normal Service	ce Retirement				
Class I 1.45% of Average Final Compensation times years of credited service	Class I \$10.97 per month for each year of service	4.82% of earnable compensation times years of credited service	Annual allowance of 71.3% of the current active salary of the member's position.		
Class II 1.82% of Average Final Compensation times years of credited service	Class II 2.14% of Average Final Compensation times years of credited service		Benefit formula increases by 2.67% for each year of active service over 25 years for judges or over 24 years for solicitors. The monthly retirement allowance may not exceed 90% of		

SCRS PORS GARS JSRS

#### 8. Formula for Normal Service Retirement (continued)

the current active salary for the member's position. A member retiring after 2003 will receive an additional benefit equal to employee contributions remitted plus accumulated interest after reaching the maximum 90% benefit.

#### 9. Requirements for Disability Retirement

5 years of earned service unless injury is job related

5 years of earned service unless injury is job related

5 years of credited service

5 years of credited service

#### 10. Formula for Disability Retirement

The disability retirement benefit based on a projection of service credit to age 65 with an actuarial reduction. The disability retirement benefit is based on a projection of service credit to age 55.

The disability retirement benefit is based on the greater of the following options:

- a. Service benefit based upon actual credited service or
- 50% of service benefit based on projection of service to earlier of age 60 or 35 years service.

The disability retirement benefit is based on the service retirement formula.

#### 11. Benefit Options

## Option A (Maximum/Retiree Only)

Formula benefit as calculated in item 8. Non-recovered contributions paid upon death.

#### Option B (100% - 100% Joint Retiree/Survivor)

Provides a reduced (from Option A) lifetime benefit that upon retiree's death continues to retiree's beneficiary.

### Option C (100% - 50% Joint Retiree/Survivor)

Provides a a reduced (from Option A) lifetime benefit that upon retiree's death will continue to retiree's beneficiary at 50% of the retiree's annuity.

Note: If a retiree selects Option B or Option C and all of the retiree's beneficiaries predecease the retiree, the retiree's benefit will revert to Option A.

## Option A (Maximum/Retiree Only)

Formula benefit as calculated in item 8. Non-recovered contributions paid upon death.

#### Option B (100% - 100% Joint Retiree/Survivor)

Provides a reduced (from Option A) lifetime benefit that upon retiree's death continues to retiree's beneficiary.

### Option C (100% - 50% Joint Retiree/Survivor)

Provides a a reduced (from Option A) lifetime benefit that upon retiree's death will continue to retiree's beneficiary at 50% of the retiree's annuity.

Note: If a retiree selects Option B or Option C and all of the retiree's beneficiaries predecease the retiree, the retiree's benefit will revert to Option A.

#### Maximum Benefit (Retiree Only)

Formula benefit as calculated in item 8. Non-recovered contributions paid upon death.

#### Option 1

Provides a reduced (from the Maximum Benefit) lifetime benefit that upon retiree's death continues to retiree's beneficiary. Benefit will not revert to Maximum if all of the retiree's beneficiaries predecease the retiree.

#### Option 2

Provides a reduced (from the Maximum Benefit) lifetime benefit that upon retiree's death will continue to retiree's beneficiary at 50% of the retiree's annuity. Benefit will not revert to Maximum if all of the retiree's beneficiaries prdecease the retiree.

#### Revert to Maximum (1A or 2A)

This feature will allow benefits to be changed to the Maximum Benefit if the retiree selects Option 1 or Option 2 and all of the retiree's beneficiaries predecease the retiree.

#### Maximum Benefit Retiree/One-Third Spouse)

Formula as calculated in item 8. Continued annuity of one-third of member's benefit to a spouse beneficiary upon death of retiree or return of contributions to a designated non-spouse beneficiary.

#### **Optional Allowance**

Provides a reduced (from the Maximum Benefit) lifetime annuity that upon the retiree's death will continue at one-third of the retiree's annuity to a non-spouse beneficiary (or in equal shares to multiple beneficiaries).

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#### 12. Teacher and Employee Retention Incentive (TERI) Program

Upon meeting retirement eligibility, a member can elect to retire and continue working under the TERI program for a maximum of five years, after which employment will cease. During TERI participation, the retirement annuity will not be paid to the TERI retirees, but will be accumulated in TERI accounts and will be distributed to the members upon termination of employment. The annuity amount credited to the TERI account is the same monthly annuity that would have been paid directly to the retiree had he or she not deferred the receipt of his or her annuity while continuing to work as a TERI participant. No interest is credited to the TERI account. Member contributions cease, but employer contributions continue during TERI participation. N/A N/A N/A

#### 13. Post Retirement Increase

Increase in Consumer Price Index, up to 4%. (Increases are not guaranteed and must be approved annually subject to compliance with statute.) Increase in Consumer Price Index, up to 4%. (Increases are not guaranteed and must be approved annually subject to compliance with statute.) Retired member receives benefit based on current salary for member's position. Retired member receives benefit based on current salary for member's position.

#### 14. Accidental Death Program

N/A

Provides 50% of earnable compensation at time of accidental death in the line of duty as an annuity to either the surviving spouse, children, or parents. N/A

N/A

#### 15. Group Life Insurance Benefits

- Lump-sum payment equal to one year's salary payable to the beneficiary upon the death of an active member with at least one year of service.
- No service requirement for death resulting from an injury arising out of the actual performance of duties for an active member.
- Lump-sum payment to retiree's beneficiary of up to \$6,000 based upon years of service at retirement.
- Lump-sum payment equal to one year's salary payable to the beneficiary upon the death of an active member with at least one year of service.
- No service requirements for death resulting from an injury arising out of the actual performance of duties for an active member.
- Lump-sum payment to retiree's beneficiary of up to \$6,000 based upon year of service at retirement.
- Lump-sum payment equal to one year's salary payable to the beneficiary upon the death of an active member with at least one year of service.
- No service requirement for death resulting from an injury arising out of the actual performance of duties for an active member.
- Lump-sum payment to retiree's beneficiary of up to \$3,000 based upon years of service at retirement.
- Lump-sum payment equal to one year's salary payable to the beneficiary upon the death of an active member with at least one year of service.
- No service requirement for death resulting from an injury arising out of the actual performance of duties for an active member.
- Lump-sum payment to retiree's beneficiary of up to \$3,000 based upon years of service at retirement.

## **Actuarial Section**

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#### 16. Withdrawal of Employee Contributions

Accumulated contributions, plus interest, payable 90 days after termination of all covered employment.

Accumulated contributions, plus interest, payable 90 days after termination of all covered employment.

Accumulated contributions, plus interest, paid as promptly as feasible after request after termination of all covered employment.

Accumulated contributions, plus interest, paid as promptly as feasible after request after termination of all covered employment.